

ROY COOPER  
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Secretary

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Director



Enter XX or Calendar Date

Mr. David Neff  
Plant Manager  
Shurtape Technologies, Inc.  
P.O. Bx 1530  
Hickory, NC 28603-1530

SUBJECT: Air Quality Permit No. 08486T18  
Facility ID 1400185  
Shurtape Technologies, Inc. Plant No. 24  
Hudson, Caldwell County, North Carolina  
Fee Class: Title V  
PSD Class: Minor

Dear Mr. Neff:

In accordance with your completed Air Quality Permit Application for renewal of your Title V permit received on September 13, 2019, we are forwarding herewith Air Quality Permit No. 08486T18 to Shurtape Technologies, Inc. – Plant No. 24, Hudson, North Carolina, authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.



North Carolina Department of Environmental Quality | Division of Air Quality

217 West Jones Street | 1641 Mail Service Center | Raleigh, North Carolina 27699-1641

919.707.8400

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of NCGS 143-215.108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of NCGS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

Caldwell County has not triggered increment tracking under PSD for any pollutants, so no tracking is required.

This Air Quality Permit shall be effective from (*Enter Permit Issuance Date*) until (*Enter Permit Expiration Date*), is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Massoud Eslambolchi at (919) 707-8728; [massoud.eslambolchi@denr.gov](mailto:massoud.eslambolchi@denr.gov).

Sincerely yours,

Mark J. Cuilla, EIT, CPM, Acting Chief, Permitting Section  
Division of Air Quality, NCDEQ

Enclosure

c: Michael Sparks, EPA Region 4 (Permit and review)  
Asheville Regional Office  
Central File  
Connie Horne (cover letter only)

ATTACHMENT to Permit No. 08486T18

Insignificant Activities per 15A NCAC 02Q .0503(8)

<b>ID No.</b>	<b>Emission Source Description</b>
I-SRSS	Synthetic rubber storage silo with bagfilter control
I-24-WT1, I-24-WT2, and I-24-WT3	Three 350 gallon internal resin tanks
I-24-PW-1, I-24-PW-2, I-24-PW-3, and I-24-PW-4	Four parts washers using non-HAP/non-VOC cleaners
I-24-QALAB-1	One quality assurance laboratory
I-24-RB-1 and I-24-AO-1 I-24-TH-1 <b>(MACT JJJJ)</b>	Two raw material hoppers and one extruder hopper venting to a bagfilter
I-RMUO <b>(MACT JJJJ)</b>	Raw material unloading operation for I-SRSS, venting to two bagfilters

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the Permittee is exempted from demonstrating compliance with any applicable requirement.
2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 "Control of Toxic Air Pollutants" or 02Q .0711 "Emission Rates Requiring a Permit."
3. For additional information regarding the applicability of MACT or GACT see the DAQ page titled "Specific Permit Conditions Regulatory Guide." The link to this site is as follows:  
<http://deq.nc.gov/about/divisions/air-quality/air-quality-permits/specific-permit-conditions-regulatory-guide>.

## Summary of Changes to Permit

The following changes were made to the Shurtape Technologies, Inc. – Hudson, NC, Air Permit No. 08486T17:

Section	Description
Throughout	<ul style="list-style-type: none"><li>• Updated revision number</li><li>• Updated issue dates</li><li>• Updated permit with new logo and letterhead</li></ul>
Insignificant Activities	<ul style="list-style-type: none"><li>• Updated formatting to match the permit shell formatting;</li><li>• Combined two raw materials hoppers (I-24-RB-1 and I-24-AO-1) with extruder hopper (I-24-TH-1) venting to a bagfilter</li></ul>
Emission Source List	<ul style="list-style-type: none"><li>• Updated/clarified regulation callouts</li><li>• Numbered out emission sources previously listed with "through"</li><li>• Removed the footnote for 24-CT-2, minor modification provisions and effective date. Added Section 2.1.F. for the two existing Corona Treater units 24-CT-1 and 24-CT-2, to include Facility-Wide requirement (only applicable regulation)</li></ul>
Section 2.1.A.3	<ul style="list-style-type: none"><li>• Updated MACT JJJJ requirements for Sources (ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3) - Section 2.1.A.3.c (i, ii)</li></ul>
Section 2.1.D	<ul style="list-style-type: none"><li>• Updated MACT DDDDD requirements for two boilers (24-BLR-2 and 24-BLR-Temp) - Sections 2.1.D.5 and 2.1.D.6</li></ul>
Section 3	<ul style="list-style-type: none"><li>• Updated General Conditions with Version 5.5 (08/25/2020)</li></ul>



State of North Carolina  
Department of Environmental Quality  
Division of Air Quality

## AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
08486T18	08486T17	XXXX	XXXX

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 02D and 02Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 02Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

**Permittee:** **Shurtape Technologies, Inc. – Plant No. 24**  
**Facility ID:** **1400185**

**Facility Site Location:** **220 Pleasant Hill Road**  
**City, County, State, Zip:** **Hudson, Caldwell County, NC 28638**  
**Mailing Address:** **P.O. Box 1530**  
**City, State, Zip:** **Hickory, NC 28603**

**Application Number:** **1400185.19A**  
**Complete Application Date:** **September 13, 2019**

**Primary SIC Code:** **2672**  
**Division of Air Quality,**  
**Regional Office Address:** **Asheville Regional Office**  
**2090 Highway 70**  
**Swannanoa, North Carolina 28778**

Permit issued this <sup>XXXX</sup> day, 2021.

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Mark J. Cuilla, EIT, CPM, Acting Chief, Permitting Section  
By Authority of the Environmental Management Commission

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ATTACHMENT

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SECTION 1- PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL  
DEVICE(S) AND APPURTENANCES

The following table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances:

Page(s)	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
5-9	24-CL1-1 (NSPS RR and MACT JJJJ)	One oriented polypropylene (OPP) release coating station (maximum capacity of 10,628 pounds per hour)	24-SR-1	One double bed carbon adsorption solvent recovery system (minimum 2,800 pounds of carbon per bed)
9-12	24-MT-1, 24-MT-2 , 24-MT-3, 24-MT-4, 24-MT-5, and 24-MT-6 (MACT EEEE and JJJJ*)	Six release coat mixing tanks (up to 750 gallons capacity, each)	24-SR-1	One double bed carbon adsorption solvent recovery system (minimum 2,800 pounds of carbon per bed)
5-9	24-CL1-2 (NSPS RR and MACT JJJJ)	One nitrogen atmosphere, hot-oil heated release coating drying oven	24-ASRS-1  24-SR-1	One closed-loop solvent recovery condenser (water/nitrogen/toluene coolant with design flow of 42,043 pounds per hour total flow; 2,105 square feet of surface area)  One double bed carbon adsorption solvent recovery system (minimum 2,800 pounds of carbon per bed)
5-9	24-CL1-3 (NSPS RR and MACT JJJJ)	One adhesive coating station	NA	NA
9-11	24-TST-1 (MACT EEEE and JJJJ*)	One recovered solvent (toluene) above ground storage tank (up to 2,999 gallons capacity)	NA	NA
12	24-MRT-1 and 24-MRT-2 (MACT JJJJ*)	Two resin storage tanks (up to 30,000 gallons capacity, each) equipped with conservation vents	NA	NA
12	24-POST-1 (MACT JJJJ*)	One process oil storage tank (up to 10,606 gallons capacity)	NA	NA
12-17	24-BLR-2 (NSPS Dc and MACT DDDDD)	One natural gas/propane-fired boiler (up to 15.0 million Btu per hour maximum heat input)	NA	NA

Page(s)	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
12-17	24-BLR-Temp (NSPS Dc and MACT DDDDD)	One Temporary natural gas/propane-fired boiler (up to 15.0 million Btu per hour maximum heat input)	NA	NA
17	PESC (MACT JJJJ*)	Process equipment solvent (toluene) clean-up process	NA	NA
17	24-CT-1 and 24-CT-2 (Facility-wide applicable emission sources for Odor Control only)	Corona Treater No.1 and Corona Treater No.2	NA	NA

\*40 CFR 63, Subpart JJJJ applicable sources with no MACT requirements (affiliated operations under the MACT)

## SECTION 2- SPECIFIC LIMITATIONS AND CONDITIONS

### 2.1- Emission Source(s) and Control Devices(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) and appurtenances listed below are subject to the following specific terms, conditions, and limitations, including the testing, monitoring, recordkeeping, and reporting requirements as specified herein:

#### A.

- One oriented polypropylene (OPP) release coating station (ID No. 24-CL1-1) with associated double bed carbon adsorption solvent recovery system (ID No. 24-SR-1)
- One nitrogen atmosphere, hot-oil heated release coating drying oven (ID No. 24-CL1-2) with associated closed-loop solvent recovery condenser (ID No. 24-ASRS-1); and one double bed carbon adsorption solvent recovery system (ID No. 24-SR-1)
- One adhesive coating station (ID No. 24-CL1-3)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Volatile organic compounds	0.20 kg VOC/kg solids applied; or 90 percent VOC reduction/month; or VOC reduction per 40 CFR 60.443(b)	15A NCAC 02D .0524 (40 CFR 60, Subpart RR)
Hazardous air pollutants	Limit organic HAP emissions to no more than 20 percent of the mass of coating solids applied for each month	15A NCAC 02D .1111 (40 CFR 63, Subpart JJJJ)
Odors	State-enforceable only See Section 2.2	15A NCAC 02D .1806

#### 1. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- Visible emissions from these sources (ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour



period. In no event shall the six-minute average exceed 90 percent opacity.

**Testing** [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

**Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for visible emissions from these sources (**ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3**).

**2. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS**

(40 CFR Part 60, Subpart RR)

- a. 40 CFR Subpart RR – “Standards of Performance for Pressure Sensitive Tape and Label Surface Coating Operations” paragraph 60.442(a) applies to these sources (**ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3**) as the line input is greater than 45Mg of VOC per 12 month period.

**Standards** [40 CFR 60.442]

- b. On and after the date on which the performance test required by 60.8 has been completed, the Permittee shall:
  - i. cause the discharge into the atmosphere from an affected facility not more than 0.20 kg VOC/kg coating solids applied as calculated on a weighted average basis for one calendar month; or
  - ii. demonstrate for each affected facility a 90 percent overall VOC emission reduction as calculated over a calendar month; or
  - iii. the percent overall VOC emission reduction specified in 60.443(b) as calculated over a calendar month.

**Monitoring/Recordkeeping** [15A NCAC 02Q .0508(f)]

- c. The monitoring/recordkeeping requirements in Section 2.1 A.3.e through j below shall be sufficient to ensure compliance with 15A NCAC 02D .0524. If the requirements in Section 2.1 A.3.e through j below are not complied with, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 (i.e., noncompliance with any requirements in Section 2.1 A.3.e through j below shall be deemed as noncompliance with 15A NCAC 02D .0524).

**Reporting** [15A NCAC 02Q .0508(f)]

- d. The reporting requirements in Section 2.1 A.3.k through m below shall be sufficient to ensure compliance with 15A NCAC 02D .0524. If the requirements in Section 2.1 A.3.k through m below are not complied with, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 (i.e., noncompliance with any requirements in Section 2.1 A.3.k through m below shall be deemed as noncompliance with 15A NCAC 02D .0524).

**3. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY**

(40 CFR Part 63, Subpart JJJJ)

**Compliance Dates** [40 CFR 63.3340]

- a. For these sources (**ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3**), the Permittee shall demonstrate compliance by December 5, 2005 with all applicable requirements of 15A NCAC 02D .1111 "Maximum Achievable Control Technology (MACT)" and 40 CFR Part 63 Subpart JJJJ "National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating".
- b. For these sources (**ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3**), the Permittee shall comply with all applicable provisions of Subpart A to 40 CFR 63 in accordance with Table 2 to Subpart JJJJ.

Emission Standard [40 CFR 63.3320(b)(3)]

- c. For these sources (**ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3**), the Permittee has chosen the option of limiting organic HAP emissions to no more than 20 percent of the mass of coating solids applied for each month.
- i. **Effective until 07/09/2021**, the applicable emission standards shall exclude periods of startup, shutdown and malfunction for the existing sources compliance [40 CFR 63.330(b)(3)]. During the periods of startup, shutdown, and malfunction, the Permittee shall operate and maintain the subject emission sources, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires that the Permittee reduce emissions from the above emission source to the greatest extent which is consistent with safety and good air pollution control practices. [15A NCAC 2D .1109]
- ii. **Beginning on and after 07/10/2021**, the provisions for startup, shutdown and malfunction (Section 2.1.A.3.c.i. above) will no longer apply and compliance with the applicable emission standards is required at all times, including startup, shutdown and malfunction periods. [40 CFR 63.330(b)(3)]

Performance Test [40 CFR 63.3360(b)(3)]

- d. The Permittee is not required to conduct performance test on any solvent recovery device as per 40 CFR 63.3360(b)(3).

Monitoring [40 CFR 63.3350]

- e. For these sources (**ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3**), the Permittee has chosen to meet the requirements of liquid-liquid material balance in 40 CFR 63.3350(d)(2) to comply with emission standard in 40 CFR 63.3320(b)(3). The Permittee shall install, calibrate, maintain, and operate according to the manufacturer's specifications a device that indicates the cumulative amount of volatile matter recovered by the solvent recovery device on a monthly basis. The device shall be certified by the manufacturer to be accurate within  $\pm 2.0$  percent by mass [40 CFR 63.3350(d)]. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if a monitoring device is not installed, calibrated, maintained, and operated for determining cumulative amount of volatile matter recovered by the solvent recovery device over a monthly basis.
- f. For these sources (**ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3**), the Permittee shall determine the organic HAP mass fraction of each coating material "as-applied" as per 40 CFR 63.3360(c). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if organic HAP mass fraction of each coating material "as-applied" is not determined using the procedures in 40 CFR 63.3360(c).
- g. For these sources (**ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3**), the Permittee shall determine the volatile organic and coating solids content of each coating material "as-applied" as per 40 CFR 63.3360(d). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if volatile organic and coating solids content of each coating material "as-applied" is not determined using the procedures in 40 CFR 63.3360(d).
- h. The Permittee shall operate a capture system and control device such that the organic HAP emission rate for these sources (**ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3**) is limited to 0.20 kg organic HAP emitted per kg coating solids applied. If the affected source operates more than one capture system, more than one control device, one or more never-controlled work stations, or one or more intermittently-controlled work stations, then the Permittee shall demonstrate compliance in accordance with the provisions of 40 CFR 63.3370(o). The Permittee shall demonstrate compliance following the procedures in 40 CFR 63.3370(j) and (o) when emissions from the affected source are controlled by a solvent recovery device. [40 CFR 63.3370(g)]. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111, if compliance is not demonstrated by following the applicable procedures in 40 CFR 63.3370(j) and (o).
- i. The Permittee shall perform a monthly liquid-liquid material balance as specified in 40 CFR 63.3370(j)(1)(ii), (iii), (v), and (vi) and (o) and use the applicable equations in 40 CFR 63.3370(j)(1)(ii),

- (iii), (v), and (vi) and (o) to convert the data to units of the selected compliance option in 40 CFR 63.3370(g). Compliance shall be determined in accordance with 40 CFR 63.3370(j)(1)(ii), (iii), (v), and (vi) and (o).
- If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied, organic HAP emission rate based on coating material applied, or emission of less than the calculated allowable organic HAP, determine the organic HAP content of each coating material as applied during the month following the procedure in 40 CFR 63.3360(c) [40 CFR 63.3370(j)(1)(ii)].
  - Determine the volatile organic content of each coating material as-applied during the month following the procedure in 40 CFR 63.3360(d) [40 CFR 63.3370(j)(1)(iii)].
  - Determine and monitor the amount of volatile organic matter recovered for the month according to the procedures in 40 CFR 63.3350(d) [40 CFR 63.3370(j)(1)(v)].
  - Recovery efficiency. Calculate the volatile organic matter collection and recovery efficiency using Equation 11 in 40 CFR 63 Subpart JJJJ: [40 CFR 63.3370(j)(1)(vi)]

$$R_v = \frac{M_{VR} + M_{vret}}{\sum_{i=1}^p C_{vi} M_i + \sum_{i=1}^q C_{vij} M_{ij}} \times 100 \quad (\text{Eq. 11})$$

Where:

- $R_v$  = Organic volatile matter collection and recovery efficiency, percent.
- $M_{vr}$  = Mass of volatile matter recovered in a month, kg.
- $M_{vret}$  = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where you choose to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in 40 CFR 63.3370.
- $p$  = Number of different coating materials applied in a month.
- $C_{vi}$  = Volatile organic content of coating material, i, expressed as a mass fraction, kg/kg.
- $M_i$  = Mass of as-purchased coating material, i, applied in a month, kg.
- $q$  = Number of different materials added to the coating material.
- $C_{vij}$  = Volatile organic content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg.
- $M_{ij}$  = Mass of material, j, added to as-purchased coating material, i, in a month, kg.
- Never-controlled work stations. The Permittee shall determine mass of all coating materials as applied on never controlled work station (**ID No. 24-CL1-3**) during the month [40 CFR 63.3370(p)(1)].
  - Liquid-liquid material balance compliance demonstration. For each web coating line or group of web coating lines for which the Permittee uses the provisions of 40 CFR 63.3370(o)(1)(ii), the Permittee shall calculate the organic HAP emitted during the month using Equation 19 of 40 CFR 63.3370 [40 CFR 63.3370(p)(3)];

$$H_e = \left[ \sum_{i=1}^p M_{Ci} C_{ahi} \right] \left[ 1 - \frac{R_v}{100} \right] + \left[ \sum_{i=1}^p M_{Bi} C_{ahi} \right] - M_{vret} \quad (\text{Eq. 19})$$

Where:

- $H_e$  = Total monthly organic HAP emitted, kg.
- $p$  = Number of different coating materials applied in a month.
- $M_{ci}$  = Sum of the mass of coating material, i, as-applied on intermittently-controlled work

stations operating in controlled mode and the mass of coating material, i, as-applied on always controlled work stations in a month, kg.

$C_{ahi}$  = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg.

$R_v$  = Organic volatile matter collection and recovery efficiency, percent.

$M_{Bi}$  = Sum of the mass of coating material, i, as-applied on intermittently-controlled work stations operating in by-pass mode and the mass of coating materials, i, as-applied on never-controlled work stations, in a month, kg.

$C_{ahi}$  = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg.

$M_{vret}$  = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where you choose to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in 40 CFR 63.3370.

vii. Convert the information obtained under 40 CFR 63.3370(o)(1) through (4) into the unit of the selected compliance options using the calculation procedures specified in 40 CFR 63.3370(o)(5)(i) through (iv) [40 CFR 63.3370(o)(5)].

A. Organic HAP emitted. Calculate the organic HAP emissions for the affected source for the month by summing all organic HAP emissions calculated according to 40 CFR 63.3370(o)(1), (2)(ii), 3(iii), and (4).

B. Coating solids applied. If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied, organic HAP emission rate based on coating material applied, or emission of less than the calculated allowable organic HAP, determine the organic HAP content of each coating material as-applied during the month following the procedure in 40 CFR 63.3360(d).

C. Organic HAP emission rate based on coating solids applied. Calculate the organic HAP emission rate based on coating solids applied using Equation 13 below in 40 CFR 63 Subpart JJJJ:

$$L = \frac{H_e}{\sum_{i=1}^p C_{si} M_i + \sum_{j=1}^q C_{sij} M_{ij}}$$

Equation 13

Where:

$L$  = Mass organic HAP emitted per mass of coating solids applied, kg/kg.

$H_e$  = Total monthly organic HAP emitted, kg.

$p$  = Number of different coating materials applied in a month.

$C_{si}$  = Coating solids content of coating material, i, expressed as a mass fraction, kg/kg.

$M_i$  = Mass of as-purchased coating material, i, applied in a month, kg.

$q$  = Number of different materials added to the coating material.

$C_{sij}$  = Coating solids content of material, j, added to as-purchased coating material, i, expressed as a mass-fraction, kg/kg.

$M_{ij}$  = Mass of material, j, added to as-purchased coating material, i, in a month, kg.

The Permittee shall be deemed in noncompliance with the emission standards in 40 CFR 63.3320(b) if the organic HAP emission rate based on coating solids applied exceeds 0.20 kg organic HAP per kg coating solids applied or the procedures in 40 CFR 63.3370(o) are not utilized to demonstrate compliance.

**Recordkeeping** [40 CFR 63.3410]

- j. For these sources (**ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3**), the Permittee shall maintain the following records specified in 40 CFR 63.3410(a)(1) on a monthly basis in accordance with the requirements of 40 CFR 63.10(b)(1):

- i. Records specified in 40 CFR 63.10(b)(2) of all measurements needed to demonstrate compliance with this standard, including:
  - A. Organic HAP content data for the purpose of demonstrating compliance in accordance with the requirements of 40 CFR 63.3360(c);
  - B. Volatile matter and coating solids content data for the purpose of demonstrating compliance in accordance with the requirements of 40 CFR 63.3360(d);
- ii. The Permittee shall maintain records of all liquid-liquid material balances performed in accordance with the requirements of 40 CFR 63.3370. The records must be maintained in accordance with the requirements of 40 CFR 63.10(b). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these records are not maintained.

**Reporting** [40 CFR 63.3400]

- k. For these sources (**ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3**), the Permittee shall submit a semiannual compliance report according to 40 CFR 63.3400(c).
- l. For these sources (**ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3**), the Permittee shall submit a Notification of Compliance Status as specified in 40 CFR 63.9(h) [40 CFR 63.3400(e)].
- m. For these sources (**ID Nos. 24-CL1-1, 24-CL1-2, and 24-CL1-3**), the Permittee shall submit a summary report of monitoring and recordkeeping activities given in Section 2.1 A.3.e through j above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**B.**

- **One recovered solvent (toluene) above ground storage tank (ID No. 24-TST-1)**
- **Six release coat mixing tanks (ID Nos. 24-MT-1 through 24-MT-6) with associated double bed carbon adsorption recovery system (ID No. 24-SR-1)**

The following table provides a summary of limits and standards for the emission source(s) described above:

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Hazardous air pollutants	Maximum Achievable Control Technology requirements	15A NCAC 02D .1111 (40 CFR 63, Subpart EEEE)
Hazardous air pollutants	Maximum Achievable Control Technology requirements*	15A NCAC 02D .1111 (40 CFR 63, Subpart JJJJ)
Odors	<b>State-enforceable only</b> <b>See Section 2.2</b>	15A NCAC 02D .1806

\* 40 CFR 63, Subpart JJJJ applicable sources with no MACT requirements (affiliated operations under the MACT).

**1. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY**  
(40 CFR Part 63, Subpart EEEE)

- a. For these sources (**ID Nos. 24-TST-1 and 24-MT-1 through 24-MT-6**), subject to 40 CFR Part 63 Subpart EEEE "National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)", the Permittee is not required to comply with the control requirements (emission limitations, operating limits, and work practice standards) in 40 CFR 63.2346(a) through (e). The Permittee is required to comply with only notification, record keeping, and reporting requirements in 40 CFR 63.2343.

**Recordkeeping/Reporting** [40 CFR 63.2382, 40 CFR 63.2386, 40 CFR 63.2390]

- b. For each storage tank subject to this Subpart having a capacity of less than 5,000 gallons and for each transfer rack subject to this Subpart that only unloads organic liquids (i.e., no organic liquids are loaded at any of the transfer racks), the Permittee shall keep documentation that verifies that each storage tank and

transfer rack identified in paragraph 40 CFR 63.2338(a) is not required to be controlled. The documentation shall be kept up-to-date (i.e., all such emission sources at a facility are identified in the documentation regardless of when the documentation was last compiled) and shall be in a form suitable and readily available for expeditious inspection and review according to 40 CFR 63.10(b)(1), including records stored in electronic form in a separate location. The documentation may consist of identification of the tanks and transfer racks identified in 40 CFR 63.2338(a) on a plant site plan or process and instrumentation diagram (P&ID). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these records are not kept. [40 CFR 63.2343(a)]

- c. For the storage tank subject to this Subpart the Permittee shall comply with the requirements specified below:
- i. The Permittee shall submit the information in 40 CFR 63.2386(c)(1), (2), (3), and (10)(i) in either the Notification of Compliance Status, according to the schedule specified in Table 12 to this Subpart, or a first Compliance report, according to the schedule specified in 40 CFR 63.2386(b), whichever occurs first.
  - ii. If the Permittee submits the first Compliance report before the Notification of Compliance Status, the Notification of Compliance Status shall contain the information specified in 40 CFR 63.2386(d)(3) and (4) if any of the changes identified in 40 CFR 63.2343(d) have occurred since the filing of the first Compliance report. If none of the changes identified in 40 CFR 63.2343(d) have occurred since the filing of the first Compliance report, the Permittee does not need to report the information specified in 40 CFR 63.2386(c)(10)(i) when the Permittee submits the Notification of Compliance Status.
  - iii. If the Permittee submits the Notification of Compliance Status before the first Compliance report, the first Compliance report shall contain the information specified in 40 CFR 63.2386(d)(3) and (4) if any of the changes specified in 40 CFR 63.2343(d) have occurred since the filing of the Notification of Compliance Status.
  - iv. If the Permittee is already submitting a Notification of Compliance Status or a first Compliance report under 40 CFR 63.2386(c), the Permittee does not need to submit a separate Notification of Compliance Status or first Compliance report for each transfer rack that meets the conditions identified in 40 CFR 63.2343(b) (i.e., a single Notification of Compliance Status or first Compliance report should be submitted).
  - v. The Permittee shall submit a subsequent Compliance report according to the schedule in 40 CFR 63.2386(b) whenever any of the events in 40 CFR 63.2343(d) occur, as applicable. The subsequent Compliance reports shall contain the information in 40 CFR 63.2386(c)(1), (2), (3) and, as applicable, in 40 CFR 63.2386(d)(3) and (4). If the Permittee is already submitting a subsequent Compliance report under 40 CFR 63.2386(d), the Permittee does not need to submit a separate subsequent Compliance report for each transfer rack that meets the conditions identified in 40 CFR 63.2343(c) (i.e., a single subsequent Compliance report should be submitted).
  - vi. For each storage tank that meets the conditions identified in 40 CFR 63.2343(b), the Permittee shall keep documentation, including a record of the annual average true vapor pressure of the total Table 1 organic HAP in the stored organic liquid, that verifies the storage tank is not required to be controlled under this Subpart. The documentation shall be kept up-to-date and be in a form suitable and readily available for expeditious inspection and review according to 40 CFR 63.10(b)(1), including records stored in electronic form in a separate location. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these records are not kept. [40 CFR 63.2343(b)]
- d. For each transfer rack subject to this Subpart that loads organic liquids but is not subject to control based on the criteria specified in Table 2 to this Subpart, items 7 through 10, the Permittee shall comply with the requirements specified below:
- i. The Permittee shall submit the information in 40 CFR 63.2386(c)(1), (2), (3), and (10)(i) in either the Notification of Compliance Status, according to the schedule specified in Table 12 to this Subpart, or a first Compliance report, according to the schedule specified in 40 CFR 63.2386(b), whichever occurs first.
  - ii. If the Permittee submits the first Compliance report before the Notification of Compliance Status, the Notification of Compliance Status shall contain the information specified in 40 CFR 63.2386(d)(3)

and (4) if any of the changes identified in 40 CFR 63.2343(d) have occurred since the filing of the first Compliance report. If none of the changes identified in 40 CFR 63.2343(d) have occurred since the filing of the first Compliance report, the Permittee does not need to report the information specified in 40 CFR 63.2386(c)(10)(i) when the Permittee submits the Notification of Compliance Status.

- iii. If the Permittee submits the Notification of Compliance Status before the first Compliance report, the first Compliance report shall contain the information specified in 40 CFR 63.2386(d)(3) and (4) if any of the changes specified in 40 CFR 63.2343(d) have occurred since the filing of the Notification of Compliance Status.
  - iv. If the Permittee is already submitting a Notification of Compliance Status or a first Compliance report under 40 CFR 63.2386(c), the Permittee does not need to submit a separate Notification of Compliance Status or first Compliance report for each transfer rack that meets the conditions identified in 40 CFR 63.2343(b) (i.e., a single Notification of Compliance Status or first Compliance report should be submitted).
  - v. The Permittee shall submit a subsequent Compliance report according to the schedule in 40 CFR 63.2386(b) whenever any of the events in 40 CFR 63.2343(d) occur, as applicable. The subsequent Compliance reports shall contain the information in 40 CFR 63.2386(c)(1), (2), (3) and, as applicable, in 40 CFR 63.2386(d)(3) and (4). If the Permittee is already submitting a subsequent Compliance report under 40 CFR 63.2386(d), the Permittee does not need to submit a separate subsequent Compliance report for each transfer rack that meets the conditions identified in 40 CFR 63.2343(c) (i.e., a single subsequent Compliance report should be submitted).
  - vi. For each transfer rack that meets the conditions identified in 40 CFR 63.2343(c), the Permittee shall keep documentation, including the records specified in 40 CFR 63.2390(d) that verifies the transfer rack is not required to be controlled under this Subpart. The documentation shall be kept up-to-date and be in a form suitable and readily available for expeditious inspection and review according to 40 CFR 63.10(b)(1), including records stored in electronic form in a separate location. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these records are not kept. [40 CFR 63.2343(c)]
- e. If one or more of the events identified in 40 CFR 63.2343(d)(1) through (4) occur since the filing of the Notification of Compliance Status or the last Compliance report, the Permittee shall submit a subsequent Compliance report as specified in 40 CFR 63.2343(b)(2) and (c)(2).
- i. Any storage tank or transfer rack became subject to control under this Subpart EEEE; or
  - ii. Any storage tank equal to or greater than 18.9 cubic meters (5,000 gallons) became part of the affected source but is not subject to any of the emission limitations, operating limits, or work practice standards of this Subpart; or
  - iii. Any transfer rack (except those racks at which only unloading of organic liquids occurs) became part of the affected source; or
  - iv. Any of the information required in 40 CFR 63.2386(c)(1), 40 CFR 63.2386(c)(2), or 40 CFR 63.2386(c)(3) has changed. [40 CFR 63.2343(d)]
- f. The Permittee shall submit a summary report of the recordkeeping activities given in Section 2.1 B.1.b through e above postmarked on or before January 30 of each calendar year for the preceding six month period between July and December and July 30 of each calendar year for the preceding six month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**C.**

- **Two resin storage tanks (ID Nos. 24-MRT-1 and 24-MRT-2)**
- **One process oil storage tank (ID No. 24-POST-1)**

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous air pollutants	Maximum Achievable Control Technology requirements*	15A NCAC 02D .1111 (40 CFR 63, Subpart JJJJ)
Odors	<b>State-enforceable only</b> <b>See Section 2.2</b>	15A NCAC 02D .1806

\* 40 CFR 63, Subpart JJJJ applicable sources with no MACT requirements (affiliated operations under the MACT).

**D.**

- **One natural gas/propane-fired boiler (ID No. 24-BLR-2)**
- **One natural gas/propane-fired boiler (ID No. 24-BLR-Temp)**

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	<b>(ID No. 24-BLR-2)</b> 0.45 pounds per million Btu heat input  <b>(ID No. 24-BLR-Temp)</b> 0.45 pounds per million Btu heat input	15A NCAC 02D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
n/a	<b>(ID No. 24-BLR-2 and ID &amp; No. 24-BLR-Temp)</b> Recordkeeping requirements  <b>(ID No. 24-BLR-Temp only)</b> Subpart Dc does not apply as long as boiler is on-site less than 180 consecutive days	15A NCAC 02D .0524 (40 CFR 60, Subpart Dc)
Hazardous air pollutants	Work Practice Standards  <b>(ID No. 24-BLR-Temp only)</b> Subpart DDDDD does not apply as long as boiler is on-site less than 12 consecutive months	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDDD)
Odors	<b>State-enforceable only</b> <b>See Section 2.2</b>	15A NCAC 02D .1806

**1. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS**

- Emissions of particulate matter from the combustion of natural gas/propane that are discharged from this source (**ID No. 24-BLR-2**) shall not exceed 0.45 pounds per million Btu heat input.
- Emissions of particulate matter from the combustion of natural gas/propane that are discharged from this source (**ID No. 24-BLR-Temp**) shall not exceed 0.45 pounds per million Btu heat input.

**Testing** [15A NCAC 02Q .0508(f)]

- If emissions testing is required, the testing shall be performed in accordance with and General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.1.a and b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

**Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]

- No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural



gas/propane in these sources (**ID Nos. 24-BLR-2 and 24-BLR-Temp**).

## 2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from these sources (**ID Nos. 24-BLR-2 and 24-BLR-Temp**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

### Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

### Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of natural gas/propane in these sources (**ID Nos. 24-BLR-2 and 24-BLR-Temp**).

## 3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from these sources (**ID Nos. 24-BLR-2 and 24-BLR-Temp**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

### Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

### Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas/propane in these sources (**ID Nos. 24-BLR-2 and 24-BLR-Temp**).

## 4. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS

(40 CFR Part 60, Subpart Dc)

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .0524, "New Source Performance Standards (NSPS)" as promulgated in 40 CFR 60, Subpart Dc, including Subpart A "General Provisions."

### Monitoring/Recordkeeping [40 CFR 60.48c]

- b. The Permittee shall notify the administrator of the date of construction and actual start-up of the boilers [40 CFR 60.48c(a) and 60.7(4)].
- c. The Permittee shall record and maintain records of the amounts of natural gas/propane fired during each month in each source (**ID Nos. 24-BLR-2 and 24-BLR-Temp**). [40 CFR 60.48c(g)(3)].
- d. All records shall be maintained on-site for a period of two years [40 CFR 60.48c(i)].
- e. This subpart shall not apply to the source (**ID No. 24-BLR-Temp**) as long as it remains a temporary boiler and is not on-site and operating more than 180 consecutive days. [40 CFR 60.41c]
- f. To ensure compliance and certify non-applicability of this regulation, the Permittee shall record and maintain records of the consecutive number of days that this source (**ID No. 24-BLR-Temp**) operates each time that it is brought on-site. The records shall include the first, last, and total number of days of operation of the source. The results shall be maintained in a logbook (written or electronic format) on-site

and made available to an authorized representative upon request. The Permittee shall be required to submit a permit application for a new source in accordance with the requirements of 15A NCAC 02D .0524 if these records are not maintained or if the consecutive number of days of operation of this source exceed 180 days [15A NCAC 02Q .0508(f)].

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if the monitoring and recordkeeping requirements above are not met.

**Reporting** [15A NCAC 02D .0524]

- g. The reporting period for reports shall be each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period [40 CFR 60.48c(g)(3)].
- h. The Permittee shall submit a summary report of all monitoring and recordkeeping activities for the sources (**ID Nos. 24-BLR-2 and 24-BLR-Temp**) given in Section 2.1 D.4.b through f above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**5. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY**  
(40 CFR Part 63, Subpart DDDDD)

**Applicability** [40 CFR 63.7485, §63.7490(b), §63.7499(l)]

- a. For this source (**ID No. 24-BLR-2**), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDDD "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" and Subpart A "General Provisions."

**Definitions and Nomenclature** [§63.7575]

- b. For the purpose of this permit condition, the definitions and nomenclature contained in §63.7575 shall apply.

**40 CFR Part 63 Subpart A General Provisions** [§63.7565]

- c. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A General Provisions according to the applicability of Subpart A to such sources as identified in Table 10 to 40 CFR Part 63, Subpart DDDDD.

**Compliance Date** [§63.7495(a)]

- d. The Permittee shall comply with the applicable requirements upon startup of this source.

**Notifications** [40 CFR 63.7545]

- e. As specified in 40 CFR 63.9(b)(4) and (5), the Permittee shall submit an Initial Notification not later than 15 days after the actual date of startup of the affected source. [40 CFR 63.7545(c)]
- f. The Permittee shall submit an initial Notification of Compliance Status. The notification shall contain the following:
  - i. A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, and description of the fuel(s) burned.
  - ii. the following certification(s) of compliance, as applicable:
    - i.- "This facility complies with the required initial tune-up according to the procedures in sections g. and h." (40 CFR 63.7540(a)(10)(i) through (vi)); and

The notification must be signed by a responsible official and sent before the close of business on the 60th day following the completion of the initial tune-up.  
[40 CFR 63.7545(e), 63.7530(d),(f)]

**Work Practice Standards** [15A NCAC 02Q .0508(f)]

- g. i. The Permittee shall conduct a tune-up every year while burning the type of fuel (or fuels in case of units that

routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up as specified below:

- (A) as applicable, inspect the burner, and clean or replace any components of the burner as necessary. The Permittee may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown.
- (B) inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
- (C) inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown).
- (D) optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject.
- (E) measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

[§63.7500(a), §63.7540(a)(10)]

- ii. Each tune-up shall be conducted no more than 13 months after the previous tune-up. The initial tune-up shall be conducted no later than 13 months after the initial startup of the source. [§63.7515(d)]
- iii. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. [§63.7540(a)(13), §63.7515(g)]
- iv. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [§63.7500(a)(3)]
- v. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Section 2.1 D.5.g. are not met.

#### **Recordkeeping Requirements** [15A NCAC 02Q .0508(f)]

- h. The Permittee shall:
  - i. keep a copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that has been submitted, according to the requirements in §63.10(b)(2)(xiv). [§63.7555(a)(1)]
  - ii. maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (A) through (C) below:
    - (A) the concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;
    - (B) a description of any corrective actions taken as a part of the tune-up; and
    - (C) the type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
- [§63.7540(a)(10)(vi)]
- iii. keep the associated records for Section 2.1.D.5.
- iv. maintain records in a form suitable and readily available for expeditious review;
- v. keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record; and
- vi. keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee can keep the records offsite for the remaining 3 years.
- [§63.7560, §63.10(b)(1)]
- vii. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained pursuant to Section 2.1.D.5.h.

#### **Reporting Requirements** [15A NCAC 02Q .0508(f)]

- i. i. The Permittee shall submit compliance reports to the DAQ on an annual basis. The first report shall cover the period beginning on the compliance date specified in Section 2.1 D.5.d. (i.e., start-up) and ending on the earliest December 31<sup>st</sup> less than one year from the compliance date. Subsequent annual reports shall cover the periods from January 1 to December 31. The Permittee shall submit the compliance reports postmarked on or before January 30 for the

- previous compliance period. [§63.7550(a), (b)]
- ii. The compliance report must also be submitted electronically via the Compliance and Emissions Data Reporting Interface (CEDRI). CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>.) You must use the appropriate electronic report in CEDRI for this subpart. Instead of using the electronic report in CEDRI for this subpart, you may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site (<http://www.epa.gov/ttn/chief/cedri/index.html>), once the XML schema is available. If the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in §63.13. You must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. [§63.7550(h)(3)]
  - iii. The compliance report must contain the following information:
    - (A) Company name and address;
    - (B) Process unit information, emissions limitations, and operating parameter limitations;
    - (C) Date of report and beginning and ending dates of the reporting period;
    - (D) Include the date of the most recent tune-up for each unit required according to Section **2.1.D.5.g (above)**. Include the date of the most recent burner inspection if it was not done annually and was delayed until the next scheduled or unscheduled unit shutdown.
    - (E) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
    - (F) If there are no deviations from the requirements of the work practice requirements in condition h. above, a statement that there were no deviations from the work practice standards during the reporting period; and
    - (G) If you have a deviation from a work practice standard during the reporting period, the report must contain the following information:
      - i. A description of the deviation and which emission limit or operating limit from which you deviated; and
      - ii. Information on the number, duration, and cause of deviations (including unknown cause), as applicable, and the corrective action taken. [§63.7550(a), (c) and (d), 63.7540(b), Table 9]
  - iv. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the reporting requirements in this section (2.1.D.5.i) are not met.

**6. 15A NCAC 02Q. 0317: AVOIDANCE CONDITIONS for  
15A NCAC 02D .1111: MAXIMUM AVAILABLE CONTROL TECHNOLOGY**

- a. In order to avoid the applicability of Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Available Control Technology" (MACT) as promulgated in 40 CFR Part 63 Subpart DDDDD, "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters," including Subpart A "General Provisions," the Permittee shall operate the emission source (**ID No. 24-BLR-Temp**), as a temporary boiler as defined in 40 CFR 63.7575.
 

Temporary boiler means any gaseous or liquid fuel boiler that is designed to, and is capable of, being carried or moved from one location to another by means of, for example, wheels, skids, carrying handles, dollies, trailers, or platforms. A boiler is not a temporary boiler if any one of the following conditions exists:

  - i. The equipment is attached to a foundation.
  - ii. The boiler or a replacement remains at a location within the facility and performs the same or similar function for more than 12 consecutive months, unless the regulatory agency approves an extension. An extension may be granted by the regulating agency upon petition by the owner or operator of a unit specifying the basis for such a request. Any temporary boiler that replaces a temporary boiler at a location and performs the same or similar function will be included in calculating the consecutive time period.
  - iii. The equipment is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least 2 years, and operates at that facility for at least 3 months each year.
  - iv. The equipment is moved from one location to another within the facility but continues to perform the

same or similar function and serve the same electricity, steam, and/or hot water system in an attempt to circumvent the residence time requirements of this definition. [40 CFR 63.7491, 63.7575]

b. In the event this source (ID No. 24-BLR-Temp) can no longer meet the definition of a temporary boiler as provided above, it shall be subject to and comply with the requirements under Section 2.1.D.5.a. through i. above. The Permittee shall notify the Regional Office within 15 days of the change in regulatory applicability and compliance with Section 2.1.D.5.a. through i. above.

**Recordkeeping** [15A NCAC 02Q 0508(f)]

- c. The Permittee shall maintain, and make available upon request, the following records:
- the first, last and total number of days the boiler is on site for each consecutive time period the boiler is brought on site and;
  - the function of the boiler for each consecutive time period.
- The results shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these records are not maintained.

**E. One process equipment solvent (toluene) clean-up process (ID No. PESC)**

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous air pollutants	Maximum Achievable Control Technology requirements*	15A NCAC 02D .1111 (40 CFR 63, Subpart JJJJ)
Odors	<b>State-enforceable only</b> <b>See Section 2.2 A.2</b>	15A NCAC 02D .1806

\*40 CFR 63, Subpart JJJJ applicable sources with no MACT requirements (affiliated operations under the MACT).

**F. Corona Treater Units (ID No. 24-CT-1 & ID No. 24-CT-2)**

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odors	<b>State-enforceable only</b> <b>See Section 2.2</b>	15A NCAC 02D .1806

**2.2-Multiple Emission Source(s) Specific Limitations and Conditions**

**A. Facility-wide applicable emission sources**

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odors	<b>State-enforceable only</b> Odorous emissions must be controlled	15A NCAC 02D .1806

**State-enforceable only**

**1. 15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS**

- a. The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.

## SECTION 3 - GENERAL CONDITIONS (version 5.5, 08/25/2020)

This section describes terms and conditions applicable to this Title V facility.

A. **General Provisions** [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]

1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02Q.
2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

B. **Permit Availability** [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]

The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environmental Quality upon request.

C. **Severability Clause** [15A NCAC 02Q .0508(i)(2)]

In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. **Submissions** [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]

Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NO<sub>x</sub> budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:

Supervisor, Stationary Source Compliance  
North Carolina Division of Air Quality  
1641 Mail Service Center  
Raleigh, NC 27699-1641

All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).

E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]

The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. **Circumvention** - STATE ENFORCEABLE ONLY

The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

G. **Permit Modifications**

1. Administrative Permit Amendments [15A NCAC 02Q .0514]

The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 02Q .0514.

2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 02Q .0524 and 02Q .0505]

The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 02Q.0524 and 02Q .0505.

3. Minor Permit Modifications [15A NCAC 02Q .0515]

The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 02Q .0515.

4. Significant Permit Modifications [15A NCAC 02Q .0516]

The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 02Q .0516.

5. Reopening for Cause [15A NCAC 02Q .0517]

The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 02Q .0517.

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements

Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:

- a. changes in the information submitted in the application;
- b. changes that modify equipment or processes; or
- c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]

- a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
- b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
  - i. the changes are not a modification under Title I of the Federal Clean Air Act;
  - ii. the changes do not cause the allowable emissions under the permit to be exceeded;



- iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
    - iv. the Permittee shall attach the notice to the relevant permit.
  - c. The written notification shall include:
    - i. a description of the change;
    - ii. the date on which the change will occur;
    - iii. any change in emissions; and
    - iv. any permit term or condition that is no longer applicable as a result of the change.
  - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
- 3. Off Permit Changes [15A NCAC 02Q .0523(b)]  
The Permittee may make changes in the operation or emissions without revising the permit if:
  - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
  - b. the change is not covered under any applicable requirement.
- 4. Emissions Trading [15A NCAC 02Q .0523(c)]  
To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

**I.A Reporting Requirements for Excess Emissions and Permit Deviations** [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

**“Excess Emissions”** - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. (*Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.*)

**“Deviations”** - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.

**Excess Emissions**

1. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
2. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
  - a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
    - i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
      - name and location of the facility;
      - nature and cause of the malfunction or breakdown;
      - time when the malfunction or breakdown is first observed;
      - expected duration; and
      - estimated rate of emissions;
    - ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
    - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

Permit Deviations

3. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
  - a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535 quarterly. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

**I.B Other Requirements under 15A NCAC 02D .0535**

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .0535(c) as follows:

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director, that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 02D .0535(c)(1) through (7).
2. 15A NCAC 02D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

**J. Emergency Provisions [40 CFR 70.6(g)]**

The Permittee shall be subject to the following provisions with respect to emergencies:

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
  - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
  - b. the permitted facility was at the time being properly operated;
  - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
  - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

**K. Permit Renewal [15A NCAC 02Q .0508(e) and 02Q .0513(b)]**

This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least six months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility's right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration for facilities subject to 15A NCAC 02Q .0400 requirements. In either of these events, all terms and conditions of these permits shall remain in effect until the renewal permits have been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 02Q .0508(i)(4)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 02Q .0508(i)(9)]

1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 02Q .0507(f)]

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508 (l)]

The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

1. the identification of each term or condition of the permit that is the basis of the certification;
2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent; and
4. the method(s) used for determining the compliance status of the source during the certification period.

Q. **Certification by Responsible Official** [15A NCAC 02Q .0520]

A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

R. **Permit Shield for Applicable Requirements** [15A NCAC 02Q .0512]

1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:

- a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
  - b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
  - c. the applicable requirements under Title IV; or
  - d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02Q .0523.
  4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 02Q .0519]

The Director may terminate, modify, or revoke and reissue this permit if:

1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred;
4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

T. **Insignificant Activities** [15A NCAC 02Q .0503]

Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The Permittee shall have available at the facility at all times and made available to an authorized representative upon request, documentation, including calculations, if necessary, to demonstrate that an emission source or activity is insignificant.

U. **Property Rights** [15A NCAC 02Q .0508(i)(8)]

This permit does not convey any property rights in either real or personal property or any exclusive privileges.

V. **Inspection and Entry** [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
  - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
  - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
  - c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.

2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. **Annual Fee Payment** [15A NCAC 02Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. Annual permit fee payments shall refer to the permit number.

3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 02Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. **Confidential Information** [15A NCAC 02Q .0107 and 02Q .0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 02Q .0100 and .0300]

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 02Q .0100 and .0300.

AA. **Standard Application Form and Required Information** [15A NCAC 02Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History** [15A NCAC 02Q .0507(d)(3)]

The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 02Q .0501(d)]

1. If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.
2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.
3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the EPA or its designee as required.

DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 02Q .0508(h)]

If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

EE. **Prevention of Accidental Releases General Duty Clause - Section 112(r)(1)** – FEDERALLY-ENFORCEABLE ONLY

Although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release.

FF. **Title IV Allowances** [15A NCAC 02Q .0508(i)(1)]

This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's

emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

**GG. Air Pollution Emergency Episode** [15A NCAC 02D .0300]

Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 02D .0300.

**HH. Registration of Air Pollution Sources** [15A NCAC 02D .0202]

The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 02D .0202(b).

**II. Ambient Air Quality Standards** [15A NCAC 02D .0501(c)]

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 02D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

**JJ. General Emissions Testing and Reporting Requirements** [15A NCAC 02Q .0508(i)(16)]

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .1110, or .1111 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance for emission sources subject to Rules .0524, .1110, or .1111, the Permittee shall provide and submit all notifications, conduct all testing, and submit all test reports in accordance with the requirements of 15A NCAC 02D .0524, .1110, or .1111, as applicable. Otherwise, if emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
  - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
    - i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
    - ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.

- iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
- b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 02D .2600 has precedence over all other tests.

**KK. Reopening for Cause [15A NCAC 02Q .0517]**

- 1. A permit shall be reopened and revised under the following circumstances:
  - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
  - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
  - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
  - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- 2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 02Q .0513(c).
- 3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 02Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
- 4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
- 5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

**LL. Reporting Requirements for Non-Operating Equipment [15A NCAC 02Q .0508(i)(16)]**

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. When permitted equipment is not in operation, the requirements for testing, monitoring, and recordkeeping are suspended until operation resumes.

**MM. Fugitive Dust Control Requirement [15A NCAC 02D .0540]**

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

"Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas, stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

NN. **Specific Permit Modifications** [15A NCAC 02Q .0501 and .0523]

1. For modifications made pursuant to 15A NCAC 02Q .0501(b)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth Street SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
  - a. a description of the change at the facility;
  - b. the date on which the change will occur;
  - c. any change in emissions; and
  - d. any permit term or condition that is no longer applicable as a result of the change.

In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

OO. **Third Party Participation and EPA Review** [15A NCAC 02Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal Environmental Protection Agency (EPA), EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 02Q .0518 begins at the end of the 45-day EPA review period.



## ATTACHMENT

### List of Acronyms

<b>AOS</b>	Alternative Operating Scenario
<b>BACT</b>	Best Available Control Technology
<b>BAE</b>	Baseline Actual Emissions
<b>Btu</b>	British thermal unit
<b>CAA</b>	Clean Air Act
<b>CAM</b>	Compliance Assurance Monitoring
<b>CEM</b>	Continuous Emission Monitor
<b>CFR</b>	Code of Federal Regulations
<b>CSAPR</b>	Cross-State Air Pollution Rule
<b>DAQ</b>	Division of Air Quality
<b>DEQ</b>	Department of Environmental Quality
<b>EMC</b>	Environmental Management Commission
<b>EPA</b>	Environmental Protection Agency
<b>FR</b>	Federal Register
<b>GACT</b>	Generally Available Control Technology
<b>GHGs</b>	Greenhouse Gases
<b>HAP</b>	Hazardous Air Pollutant
<b>LAER</b>	Lowest Achievable Emission Rate
<b>MACT</b>	Maximum Achievable Control Technology
<b>NAA</b>	Non-Attainment Area
<b>NAAQS</b>	National Ambient Air Quality Standards
<b>NCAC</b>	North Carolina Administrative Code
<b>NCGS</b>	North Carolina General Statutes
<b>NESHAP</b>	National Emission Standards for Hazardous Air Pollutants
<b>NO<sub>x</sub></b>	Nitrogen Oxides
<b>NSPS</b>	New Source Performance Standard
<b>NSR</b>	New Source Review
<b>OAH</b>	Office of Administrative Hearings
<b>PAE</b>	Projected Actual Emissions
<b>PAL</b>	Plantwide Applicability Limitation
<b>PM</b>	Particulate Matter
<b>PM<sub>2.5</sub></b>	Particulate Matter with Nominal Aerodynamic Diameter of 2.5 Micrometers or Less
<b>PM<sub>10</sub></b>	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
<b>POS</b>	Primary Operating Scenario
<b>PSD</b>	Prevention of Significant Deterioration
<b>PTE</b>	Potential to Emit
<b>RACT</b>	Reasonably Available Control Technology
<b>SIC</b>	Standard Industrial Classification
<b>SIP</b>	State Implementation Plan
<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>TAP</b>	Toxic Air Pollutant
<b>tpy</b>	Tons Per Year
<b>VOC</b>	Volatile Organic Compound